



WESTERN ELECTRO - ACOUSTIC LABORATORY

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SOUND TRANSMISSION LOSS TEST REPORT NO. TL03-391

CLIENT: LOS ANGELES FIREPROOF DOOR COMPANY
2993 Allesandro Street
Los Angeles, CA 90039
TEST DATE: 15 October 2003

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INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM E 90-02, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions*. Details of the procedure will be furnished upon request. The test chamber source and receiving room volumes are 204 and 148.4 cubic meters respectively. Western Electro-Acoustic Laboratory is accredited by NVLAP (National Voluntary Laboratory Accreditation Program) Lab Code 100256-0 for this test procedure. NVLAP is part of the United States Department of Commerce, National Institute of Standards and Technology (NIST). This test report relates only to the item(s) tested. Any advertising that utilizes this test report or test data must not imply product certification or endorsement by WEAL, NVLAP, NIST or the U.S. Government.

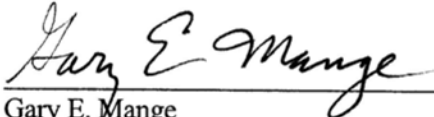
DESCRIPTION OF TEST SPECIMEN

The test specimen was a Los Angeles Fireproof Door Company Model 51218 steel door assembly. The steel frame was fully grouted and was sealed into the test chamber opening with a heavy duct seal putty around the entire perimeter on both sides. The overall thickness of the door panel was 1-7/8 inches and it was hung on two 5 inch (127 mm) Aero 950 cam lift hinges. The construction of the door panel is proprietary and is on file at this office. The seals on the frame consisted of adjustable surface mounted foam seals at the full interior perimeter. Strips of self adhesive QLon compression seal were used on the door panel at two locations on the top and one location on the bottom. A single strip of self adhesive QLon compression seal was also used on the door frame at the hinge side jamb. The door panel was held into the closed position with a Kason refrigerator door latch. The overall dimensions of the door assembly were 40 inches (1.02 m) wide by 86 inches (2.18 m) high by 6 inches (152.4 mm) deep. The dimensions of the door panel were 35-3/4 inches (.908 m) wide by 83 inches (2.11 m) high. The overall weight of the door panel was 276.5 lbs. (125.4 kg) for a calculated surface density of 13.4 lbs.ft² (65.5 kg/m²). The door was opened and closed five times immediately prior to the test in accordance with appendix A1.8.3.

RESULTS OF THE MEASUREMENTS

One-third octave band sound transmission loss values are tabulated on the attached sheet. ASTM minimum volume requirements are met at 80 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E 413-87 (Reapproved 1999) was STC-51.

Approved:



Gary E. Mange
Laboratory Manager

Respectfully submitted,
Western Electro-Acoustic Laboratory, Inc.



Leo Amezcua
Acoustical Test Technician